



Glenn Research Center

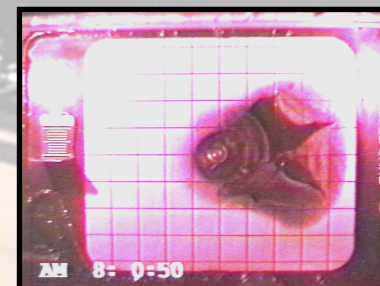


Solid Fuel Combustion

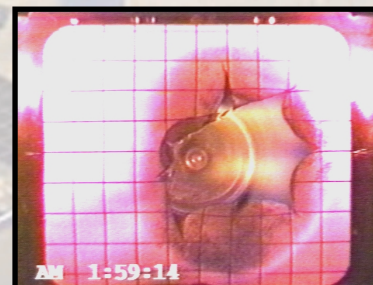
- ◆ Transition from Ignition to Flame Growth under External Radiation in 3-D
 - Study how fires ignite and grow under the influence of external radiation
 - Thin samples of polymethylmethacrylate (PMMA) and paper
 - Laser ignition
 - Flow duct to control the flow velocity
 - Measure flame shape and structure, and flame and surface temperature



0.5 cm/s flow



2 cm/s flow



6.5 cm/s flow



Smoldering in 2 cm/s flow

RITSI Glovebox